



\*\*FILE\*\*ID\*\*LIBRTL2

C 11

LL !!!!! BBBBBBBB RRRRRRRR TTTTTTTT LL 222222  
LL !!!!! BBBBBBBB RRRRRRRR TTTTTTTT LL 222222  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BBBBBBBB RRRRRRRR TT LL 22  
LL II BBBBBBBB RRRRRRRR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LL II BB RR RR TT LL 22 22  
LLLLLLLLLL !!!!! BBBBBBBB RR RR TT LLLLLLLL 2222222222  
LLLLLLLLLL !!!!! BBBBBBBB RR RR TT LLLLLLLL 2222222222

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! Object Module Synopsis !
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| Module Name       | Ident   | Bytes | File                                  | Creation Date     | Creator                  |
|-------------------|---------|-------|---------------------------------------|-------------------|--------------------------|
| LIB\$VECTOR2      | 1-001   | 24    | [LIBRTL.OBJ]LIBVECTR2.OBJ;1           | 15-SEP-1984 23:45 | VAX/VMS Macro V04-00     |
| LIB\$CVTDXDX      | 1-009   | 4863  | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 16-Sep-1984 00:43 | VAX-11 Bliss-32 V4.0-742 |
| LIB\$DECODE_FAULT | 1-009   | 4322  | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:55 | VAX/VMS Macro V04-00     |
| LIB\$SIM_TRAP     | 1-003   | 1990  | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 16-SEP-1984 00:18 | VAX/VMS Macro V04-00     |
| LIB\$CVTMAC       | 1-005   | 886   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:50 | VAX/VMS Macro V04-00     |
| LIB\$FINDCVT_PATH | 1-006   | 2373  | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 16-Sep-1984 00:54 | VAX-11 Bliss-32 V4.0-742 |
| LIB\$AB_CVTPT_O   | 1-003   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:51 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVTPT_U   | 1-003   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:52 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVTPT_Z   | 1-002   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:52 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVTTP_O   | 1-003   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:53 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVTTP_U   | 1-003   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:53 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVTTP_Z   | 1-002   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:54 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVT_O_U   | 1-003   | 256   | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:51 | VAX/VMS Macro V04-00     |
| LIB\$AB_CVT_U_O   | 1-003   | 20    | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:54 | VAX/VMS Macro V04-00     |
| LIB\$MSGDEF       | 2-018   | 0     | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:43 | VAX-11 Message V04-00    |
| OTSSMSGDEF        | 2-003   | 0     | _S255\$DUA28:[LIBRTL.OBJ]LIBRTL.OLB;1 | 15-SEP-1984 23:44 | VAX-11 Message V04-00    |
| MTH\$CVTDG        | 2-003   | 397   | _S255\$DUA28:[SYSOBJ]MTHRTL.OLB;1     | 16-SEP-1984 01:13 | VAX/VMS Macro V04-00     |
| MTH\$\$SIGNAL     | 1-003   | 129   | _S255\$DUA28:[SYSOBJ]MTHRTL.OLB;1     | 16-SEP-1984 01:49 | VAX/VMS Macro V04-00     |
| MTH\$MSGDEF       | 2-002   | 0     | _S255\$DUA28:[SYSOBJ]MTHRTL.OLB;1     | 16-SEP-1984 00:59 | VAX-11 Message V04-00    |
| MTH\$ERRDEF       | 1-007   | 0     | _S255\$DUA28:[SYSOBJ]MTHRTL.OLB;1     | 16-SEP-1984 01:47 | VAX/VMS Macro V04-00     |
| FOR\$CVTRT        | 1-017   | 1138  | _S255\$DUA28:[SYSOBJ]FORRTL.OLB;1     | 15-SEP-1984 23:49 | VAX/VMS Macro V04-00     |
| FOR\$MSGDEF       | 2-006   | 0     | _S255\$DUA28:[SYSOBJ]FORRTL.OLB;1     | 15-SEP-1984 23:46 | VAX-11 Message V04-00    |
| SYSSP1_VECTOR     | V04-000 | 0     | _S255\$DUA28:[SYSLIB]STARLET.OLB;2    | 16-SEP-1984 00:40 | VAX/VMS Macro V04-00     |
| SYSSSSDEF         | V04-000 | 0     | _S255\$DUA28:[SYSLIB]STARLET.OLB;2    | 16-SEP-1984 01:18 | VAX/VMS Macro V04-00     |
| LIBRTL            | V04-000 | 0     | _S255\$DUA28:[SYSLIB]LIBRTL.EXE;1     | 16-SEP-1984 04:00 | VAX-11 Linker V04-00     |

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! Image Section Synopsis !  
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| Cluster  | Type | Pages | Base Addr  | Disk | VBN | PFC                    | Protection and Paging | Global Sec. | Name | Match      | Majorid | Minorid |
|----------|------|-------|------------|------|-----|------------------------|-----------------------|-------------|------|------------|---------|---------|
| CLUSTER1 | 3    | 36    | 00000000-R | 2    | 0   | READ ONLY              |                       |             |      |            |         |         |
|          | 2    | 1     | 00004800-R | 38   | 0   | READ WRITE             | FIXUP VECTORS         |             |      |            |         |         |
| LIBRTL   | 3    | 111   | 00000000-R | 0    | 0   | READ ONLY              |                       | LIBRTL_001  |      | LESS/EQUAL | 1       | 11      |
|          | 4    | 1     | 0000DE00-R | 0    | 0   | READ WRITE DEMAND ZERO |                       | LIBRTL_002  |      | LESS/EQUAL | 1       | 11      |

Key for special characters above:

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! R - Relocatable !  
! P - Protected !  
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|: Program Section Synopsis :|
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| Psect Name    | Module Name         | Base     | End      | Length     | Align          | Attributes                                    |
|---------------|---------------------|----------|----------|------------|----------------|---|
| \$LIB\$VECTR2 | LIB\$VECTR2         | 00000000 | 00000017 | 00000018 ( | 24.) QUAD 3    | PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC |
|               |                     | 00000000 | 00000017 | 00000018 ( | 24.) QUAD 3    |   |
| _FOR\$CODE    | FOR\$CVTRT          | 00000018 | 00000489 | 00000472 ( | 1138.) LONG 2  | PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC |
|               |                     | 00000018 | 00000489 | 00000472 ( | 1138.) LONG 2  |   |
| _LIB\$CODE    | LIB\$CVTDXDX        | 0000048C | 0000440B | 00003F80 ( | 16256.) LONG 2 | PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC |
|               | LIB\$DECODE_FAULT   | 0000048C | 0000178A | 000012FF ( | 4863.) LONG 2  |   |
|               | LIB\$SIM_TRAP       | 0000178C | 0000286D | 000010E2 ( | 4322.) LONG 2  |   |
|               | LIB\$CVTMAC         | 00002870 | 00003035 | 000007C6 ( | 1990.) LONG 2  |   |
|               | LIB\$SFIND_CVT_PATH | 00003038 | 000033AD | 00000376 ( | 886.) LONG 2   |   |
|               | LIB\$AB_CVTPT_O     | 00003380 | 00003CF4 | 00000945 ( | 2373.) LONG 2  |   |
|               | LIB\$AB_CVTPT_U     | 00003CF8 | 00003DF7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVTPT_Z     | 00003DF8 | 00003EF7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVTTP_O     | 00003EF8 | 00003FF7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVTTP_U     | 00003FF8 | 000040F7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVTTP_Z     | 000040F8 | 000041F7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVT_O_U     | 000041F8 | 000042F7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVT_U_O     | 000042F8 | 000043F7 | 00000100 ( | 256.) LONG 2   |   |
|               | LIB\$AB_CVT_U_O     | 000043F8 | 0000440B | 00000014 ( | 20.) LONG 2    |   |
| _MTH\$CODE    | MTH\$CVTDG          | 0000440C | 0000461C | 00000211 ( | 529.) LONG 2   | PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC |
|               | MTH\$\$SIGNAL       | 0000440C | 00004598 | 00000180 ( | 397.) LONG 2   |   |
|               |                     | 0000459C | 0000461C | 00000081 ( | 129.) LONG 2   |   |

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 ! Symbol Cross Reference !  
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| Symbol            | Value      | Defined By  | Referenced By ...            |
|-------------------|------------|-------------|------------------------------|
| FOR\$CNV_OUT_D    | 0000007D-R | FOR\$CVTRT  |                              |
| FOR\$CNV_OUT_E    | 0000002D-R | FOR\$CVTRT  |                              |
| FOR\$CNV_OUT_F    | 00000175-R | FOR\$CVTRT  |                              |
| FOR\$CNV_OUT_G    | 00000232-R | FOR\$CVTRT  |                              |
| FOR\$CVT_D_TD     | 0000007D-R | FOR\$CVTRT  |                              |
| FOR\$CVT_D_TE     | 0000002D-R | FOR\$CVTRT  |                              |
| FOR\$CVT_D_TF     | 00000175-R | FOR\$CVTRT  | LIB\$CVTDXDX<br>LIB\$CVTDXDX |
| FOR\$CVT_D_TG     | 00000232-R | FOR\$CVTRT  |                              |
| FOR\$CVT_F_TD     | 00000069-R | FOR\$CVTRT  |                              |
| FOR\$CVT_F_TE     | 00000018-R | FOR\$CVTRT  |                              |
| FOR\$CVT_F_TF     | 00000166-R | FOR\$CVTRT  |                              |
| FOR\$CVT_F_TG     | 0000021E-R | FOR\$CVTRT  |                              |
| FOR\$CVT_G_TD     | 00000091-R | FOR\$CVTRT  |                              |
| FOR\$CVT_G_TE     | 00000041-R | FOR\$CVTRT  |                              |
| FOR\$CVT_G_TF     | 00000184-R | FOR\$CVTRT  |                              |
| FOR\$CVT_G_TG     | 00000246-R | FOR\$CVTRT  |                              |
| FOR\$CVT_H_TD     | 000000A5-R | FOR\$CVTRT  |                              |
| FOR\$CVT_H_TE     | 00000055-R | FOR\$CVTRT  | LIB\$CVTDXDX                 |
| FOR\$CVT_H_TF     | 00000193-R | FOR\$CVTRT  | LIB\$CVTDXDX                 |
| FOR\$CVT_H_TG     | 0000025A-R | FOR\$CVTRT  |                              |
| FORS_ADJARRDIM    | 001882EC   | FOR\$MSGDEF |                              |
| FORS_ATTACNON     | 00188124   | FOR\$MSGDEF |                              |
| FORS_ATTRANON     | 00188124   | FOR\$MSGDEF |                              |
| FORS_BACERR       | 001880BC   | FOR\$MSGDEF |                              |
| FORS_CLOERR       | 001880E4   | FOR\$MSGDEF |                              |
| FORS_DELERR       | 001881BC   | FOR\$MSGDEF |                              |
| FORS_DIRIO_KEY    | 00188814   | FOR\$MSGDEF |                              |
| FORS_DUPFILE[SPE] | 001880AC   | FOR\$MSGDEF |                              |
| FORS_ENDDURREA    | 001880C4   | FOR\$MSGDEF |                              |
| FORS_ENDFILEERR   | 0018810C   | FOR\$MSGDEF |                              |
| FORS_ERRDURREA    | 0018813C   | FOR\$MSGDEF |                              |
| FORS_ERRDURWRI    | 00188134   | FOR\$MSGDEF |                              |
| FORS_FACILITY     | 00000018   | FOR\$MSGDEF |                              |
| FORS_FILNAMSPE    | 0018815C   | FOR\$MSGDEF |                              |
| FORS_FILNOTFOU    | 001880EC   | FOR\$MSGDEF |                              |
| FORS_FINERR       | 001881CC   | FOR\$MSGDEF |                              |
| FORS_FLOUNDEXC    | 00188963   | FOR\$MSGDEF |                              |
| FORS_FMTIO_UNF    | 0018880C   | FOR\$MSGDEF |                              |
| FORS_FORVARMIS    | 001881EC   | FOR\$MSGDEF |                              |
| FORS_IP..FILEORG  | 0018819C   | FOR\$MSGDEF |                              |
| FORS_INCKEYCHG    | 00188194   | FOR\$MSGDEF |                              |
| FORS_INCOPECLO    | 00188174   | FOR\$MSGDEF |                              |
| FORS_INCRECLEN    | 0018812C   | FOR\$MSGDEF |                              |
| FORS_INRECTYP     | 00188164   | FOR\$MSGDEF |                              |
| FORS_INFFORL00    | 001881E4   | FOR\$MSGDEF |                              |
| FORS_INPCONERR    | 00188204   | FOR\$MSGDEF |                              |
| FORS_INPRECTOO    | 001880B4   | FOR\$MSGDEF |                              |
| FORS_INPSTAREQ    | 0018821C   | FOR\$MSGDEF |                              |
| FORS_INSVIRMEM    | 0018814C   | FOR\$MSGDEF |                              |

| Symbol              | Value      | Defined By | Referenced By ...             |
|---------------------|------------|------------|-------------------------------|
| FORS_INVARGFOR      | 00188184   | FORMSGDEF  |                               |
| FORS_INVKYESPE      | 0018818C   | FORMSGDEF  |                               |
| FORS_INVLGUNI       | 00188104   | FORMSGDEF  |                               |
| FORS_INVREFVAR      | 0018809C   | FORMSGDEF  |                               |
| FORS_INVTEX         | 0018883C   | FORMSGDEF  |                               |
| FORS_INVTEXREC      | 00188834   | FORMSGDEF  |                               |
| FORS_IO_NONFOR      | 0018882C   | FORMSGDEF  |                               |
| FORS_KEYIO_DIR      | 00188824   | FORMSGDEF  |                               |
| FORS_KEYVALERR      | 0018816C   | FORMSGDEF  |                               |
| FORS_LISIO_SYN      | 001881DC   | FORMSGDEF  |                               |
| FORS_MIXFILEACC     | 001880FC   | FORMSGDEF  |                               |
| FORS_MORONEREC      | 001880DC   | FORMSGDEF  |                               |
| FORS_NOTFORSP       | 0018800C   | FORMSGDEF  |                               |
| FORS_NO_CURREC      | 001881AC   | FORMSGDEF  |                               |
| FORS_NO_SUCDEV      | 00188154   | FORMSGDEF  |                               |
| FORS_OPEDEFREQ      | 001880D4   | FORMSGDEF  |                               |
| FORS_OPEFAI         | 001880F4   | FORMSGDEF  |                               |
| FORS_OPEREQDIS      | 00188844   | FORMSGDEF  |                               |
| FORS_OPEREQSEQ      | 0018884C   | FORMSGDEF  |                               |
| FORS_OUTCONERR      | 001881FA   | FORMSGDEF  |                               |
| FORS_OUTSTAOVE      | 00188214   | FORMSGDEF  |                               |
| FORS_RECIO_OPE      | 00188144   | FORMSGDEF  |                               |
| FORS_RECNUMOUT      | 001880CC   | FORMSGDEF  |                               |
| FORS_REWERR         | 001880A4   | FORMSGDEF  |                               |
| FORS_REWRITERR      | 001881B4   | FORMSGDEF  |                               |
| FORS_SEGRECFOR      | 0018811C   | FORMSGDEF  |                               |
| FORS_SEQIO_DIR      | 0018881C   | FORMSGDEF  |                               |
| FORS_SPERELOC       | 001881A4   | FORMSGDEF  |                               |
| FORS_SYNERRFOR      | 001881F4   | FORMSGDEF  |                               |
| FORS_SYNERRNAME     | 0018808C   | FORMSGDEF  |                               |
| FORS_TOOMANREC      | 001880DC   | FORMSGDEF  |                               |
| FORS_TOOMANVAL      | 00188094   | FORMSGDEF  |                               |
| FORS_UNFIOD_FMT     | 00188804   | FORMSGDEF  |                               |
| FORS_UNIALROPE      | 00188114   | FORMSGDEF  |                               |
| FORS_UNLERR         | 001881C4   | FORMSGDEF  |                               |
| FORS_VFEVALERR      | 00188224   | FORMSGDEF  |                               |
| FORS_WIREAFIL       | 0018817C   | FORMSGDEF  |                               |
| LIBSSCVT_ASHP_R1    | 0000338B-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CMPPH_R1   | 00003397-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTDA_R1   | 00003210-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTGH_R1   | 0000331C-R | LIBSCVTMAC | LIBSSFINDCVT_PATH LIBSCVTDXDX |
| LIBSSCVT_CVTHD_R1   | 00003312-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTHF_R1   | 0000330D-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTHG_R1   | 00003317-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTLB_R1   | 00003038-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTLH_R1   | 00003040-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTLW_R1   | 0000303C-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTRDD_R1  | 000031E0-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTRHL_R1  | 00003215-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTRHO_R1  | 000032B7-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTRHQ_R1  | 0000321A-R | LIBSCVTMAC | LIBSCVTDXDX                   |
| LIBSSCVT_CVTROUD_R1 | 000030AA-R | LIBSCVTMAC | LIBSCVTDXDX                   |

| Symbol                           | Value       | Defined By          | Referenced By ...                     |
|----------------------------------|-------------|---------------------|---------------------------------------|
| LIB\$SCVT_CVTROUF_R1             | 00003059-R  | LIB\$CVTMAC         |                                       |
| LIB\$SCVT_CVTROUG_R1             | 000030FB-R  | LIB\$CVTMAC         |                                       |
| LIB\$SCVT_CVTROUH_R1             | 00003128-R  | LIB\$CVTMAC         |                                       |
| LIB\$SCVT_DIVD2_RT               | 0000337D-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SCVT_DIVH2_R1               | 00003386-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SCVT_MULD2_R1               | 00003379-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SCVT_MULH2_R1               | 00003381-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SCVT_SCALE_OU_DOWN_BY_10_R1 | 00003350-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SCVT_SCALE_OU_UP_BY_10_RT   | 00003321-R  | LIB\$CVTMAC         | LIB\$CVTDXX                           |
| LIB\$SFIND_CVT_PATH              | 000034A3-R  | LIB\$SFIND_CVT_PATH | LIB\$CVTDXX                           |
| LIB\$AB_CVTPT_O                  | 00003CF8-R  | LIB\$AB_CVTPT_O     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVTPT_U                  | 00003DF8-R  | LIB\$AB_CVTPT_U     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVTPT_Z                  | 00003EF8-R  | LIB\$AB_CVTPT_Z     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVTPP_O                  | 00003FF8-R  | LIB\$AB_CVTPP_O     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVTPP_U                  | 000040F8-R  | LIB\$AB_CVTPP_U     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVTPP_Z                  | 000041F8-R  | LIB\$AB_CVTPP_Z     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVT_O_U                  | 000042F8-R  | LIB\$AB_CVT_O_U     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$AB_CVT_U_O                  | 000043F8-R  | LIB\$AB_CVT_U_O     | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$CVTDXX                      | 000005E0-RU | LIB\$CVTDXX         | LIB\$VECTR2                           |
| LIB\$DECODE_FAULT                | 0000178C-RU | LIB\$DECODE_FAULT   | LIB\$VECTR2                           |
| LIB\$GET_OPCODE                  | 00004868-RX | LIBRTL              | LIB\$DECODE_FAULT                     |
| LIB\$MATCH_COND                  | 0000486C-RX | LIBRTL              | LIB\$CVTDXX                           |
| LIB\$COPY_DDX6                   | 00004874-RX | LIBRTL              | LIB\$CVTDXX                           |
| LIB\$COPY_R_DX6                  | 00004870-RX | LIBRTL              | LIB\$CVTDXX                           |
| LIB\$SIGNA[                      | 0000487C-RX | LIBRTL              | LIB\$CVTMAC MTH\$SIGNAL               |
| LIB\$SIG_TO_RET                  | 00004880-RX | LIBRTL              | LIB\$CVTDXX                           |
| LIB\$SIM_TRAP                    | 00002870-RU | LIB\$SIM_TRAP       | LIB\$VECTR2                           |
| LIB\$STOP                        | 00004878-RX | LIBRTL              | LIB\$SFIND_CVT_PATH LIB\$DECODE_FAULT |
| LIB\$AMBKEY                      | 0015823C    | LIB\$MSGDEF         |                                       |
| LIB\$AMBSYndef                   | 00158374    | LIB\$MSGDEF         |                                       |
| LIB\$ATTCONSTO                   | 0015827C    | LIB\$MSGDEF         |                                       |
| LIB\$ATTRREF                     | 00158394    | LIB\$MSGDEF         |                                       |
| LIB\$BADBLOADR                   | 00158264    | LIB\$MSGDEF         |                                       |
| LIB\$BADBLOSIz                   | 0015826C    | LIB\$MSGDEF         |                                       |
| LIB\$BADCCC                      | 0015C000    | LIB\$MSGDEF         |                                       |
| LIB\$BADSTA                      | 00158204    | LIB\$MSGDEF         |                                       |
| LIB\$BADTAGVAL                   | 00158384    | LIB\$MSGDEF         |                                       |
| LIB\$DECOVF                      | 0015833C    | LIB\$MSGDEF         | LIB\$CVTDXX                           |
| LIB\$DESSTROVF                   | 0015832C    | LIB\$MSGDEF         | LIB\$CVTDXX                           |
| LIB\$EF_ALRFRE                   | 0015829C    | LIB\$MSGDEF         |                                       |
| LIB\$EF_ALRRES                   | 001582A4    | LIB\$MSGDEF         |                                       |
| LIB\$EF_RESSYS                   | 001582AC    | LIB\$MSGDEF         |                                       |
| LIB\$EOMERROR                    | 0015C008    | LIB\$MSGDEF         |                                       |
| LIB\$EOMFATAL                    | 0015C010    | LIB\$MSGDEF         |                                       |
| LIB\$EOMWARN                     | 0015C018    | LIB\$MSGDEF         |                                       |
| LIB\$ERRROUCL                    | 00158029    | LIB\$MSGDEF         |                                       |
| LIB\$FACILITY                    | 00000015    | LIB\$MSGDEF         |                                       |
| LIB\$FATERRLIB                   | 0015820C    | LIB\$MSGDEF         | LIB\$SFIND_CVT_PATH LIB\$CVTDXX       |
| LIB\$FILFAIMAT                   | 00159008    | LIB\$MSGDEF         |                                       |
| LIB\$FLTOVF                      | 00158344    | LIB\$MSGDEF         | LIB\$CVTDXX                           |
| LIB\$FLTUND                      | 0015834C    | LIB\$MSGDEF         | LIB\$CVTDXX                           |

| Symbol          | Value    | Defined By  | Referenced By ... | MC |
|-----------------|----------|-------------|-------------------|----|
| LIB\$_GSDTYP    | 0015C020 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLFMCNT  | 0015C028 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLMODNAM | 0015C030 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLPSCLEN | 0015C038 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLRECLEN | 0015C040 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLRECLN2 | 0015C048 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLRECTY2 | 0015C058 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLRECTYP | 0015C050 | LIB\$MSGDEF |                   | {* |
| LIB\$_ILLSYMLEN | 0015C060 | LIB\$MSGDEF |                   | {* |
| LIB\$_INPSTRTRU | 0015821C | LIB\$MSGDEF |                   | {* |
| LIB\$_INSCLIMEM | 0015836C | LIB\$MSGDEF |                   | {* |
| LIB\$_INSEF     | 00158294 | LIB\$MSGDEF |                   | {* |
| LIB\$_INSLUN    | 001582B4 | LIB\$MSGDEF |                   | {* |
| LIB\$_INSVIRMEM | 00158214 | LIB\$MSGDEF |                   | {* |
| LIB\$_INTLOGERR | 0015822C | LIB\$MSGDEF |                   | {* |
| LIB\$_INTOVF    | 00158334 | LIB\$MSGDEF | LIB\$CVTDXDX      | {* |
| LIB\$_INVARG    | 00158234 | LIB\$MSGDEF | LIB\$DECODE_FAULT | {* |
| LIB\$_INVCHA    | 001582E4 | LIB\$MSGDEF |                   | {* |
| LIB\$_INVCLADSC | 00158314 | LIB\$MSGDEF | LIB\$CVTDXDX      | {* |
| LIB\$_INVCLADTY | 0015831C | LIB\$MSGDEF | LIB\$CVTDXDX      | {* |
| LIB\$_INVCVT    | 00158304 | LIB\$MSGDEF | LIB\$CVTDXDX      | {* |
| LIB\$_INVDTYDSC | 0015830C | LIB\$MSGDEF | LIB\$CVTDXDX      | {* |
| LIB\$_INVFILSPE | 0015839C | LIB\$MSGDEF |                   | {* |
| LIB\$_INVNBD\$  | 00158324 | LIB\$MSGDEF | LIB\$CVTDXDX      | CO |
| LIB\$_INVOPEZON | 0015838C | LIB\$MSGDEF |                   | CO |
| LIB\$_INVSCRPOS | 001582D4 | LIB\$MSGDEF |                   | CO |
| LIB\$_INVSTRDES | 00158224 | LIB\$MSGDEF |                   | CO |
| LIB\$_INVSYMNAM | 0015838C | LIB\$MSGDEF |                   | EN |
| LIB\$_INVTYPE   | 0015828C | LIB\$MSGDEF |                   | CO |
| LIB\$_INVXAB    | 001583A4 | LIB\$MSGDEF |                   | CO |
| LIB\$_KEYALRINS | 00158021 | LIB\$MSGDEF |                   | EN |
| LIB\$_KEYNOTFOU | 001582FC | LIB\$MSGDEF |                   | EN |
| LIB\$_LUNALRFRE | 001582BC | LIB\$MSGDEF |                   | EN |
| LIB\$_LUNRESSYS | 001582C4 | LIB\$MSGDEF |                   | EN |
| LIB\$_NEGANS    | 00159010 | LIB\$MSGDEF |                   | EN |
| LIB\$_NOCLI     | 0015837C | LIB\$MSGDEF |                   | EN |
| LIB\$_NOEOM     | 0015C068 | LIB\$MSGDEF |                   | EN |
| LIB\$_NORMAL    | 00158001 | LIB\$MSGDEF |                   | EN |
| LIB\$_NOSUCHSYM | 00158364 | LIB\$MSGDEF |                   | EN |
| LIB\$_NOTFOU    | 00158274 | LIB\$MSGDEF |                   | EN |
| LIB\$_NO_STRACT | 001583AC | LIB\$MSGDEF |                   | EN |
| LIB\$_ONEENTQUE | 00158019 | LIB\$MSGDEF | LIB\$CVTDXDX      | EN |
| LIB\$_OUTSTRTRU | 00159000 | LIB\$MSGDEF |                   | EN |
| LIB\$_PAGLIMEXC | 001583C4 | LIB\$MSGDEF |                   | EN |
| LIB\$_PUSSTAOVE | 0015824C | LIB\$MSGDEF |                   | EN |
| LIB\$_QUEWASEMP | 001582EC | LIB\$MSGDEF |                   | EN |
| LIB\$_QUICONACT | 00159020 | LIB\$MSGDEF |                   | EN |
| LIB\$_QUIPRO    | 00159018 | LIB\$MSGDEF |                   | EN |
| LIB\$_RECTOOSML | 0015C070 | LIB\$MSGDEF |                   | EN |
| LIB\$_RESTART   | 00158031 | LIB\$MSGDEF | LIB\$DECODE_FAULT | EN |
| LIB\$_ROPRAND   | 00158354 | LIB\$MSGDEF | LIB\$CVTDXDX      | EN |
| LIB\$_SCRBUFOVF | 001582CC | LIB\$MSGDEF |                   | EN |

| Symbol            | Value       | Defined By    | Referenced By ... |
|-------------------|-------------|---------------|-------------------|
| LIB\$-SECINTFAI   | 001582DC    | LIB\$MSGDEF   |                   |
| LIB\$-SEQUENCE    | 0015C078    | LIB\$MSGDEF   |                   |
| LIB\$-SEQUENCE2   | 0015C080    | LIB\$MSGDEF   |                   |
| LIB\$-SIGNO_ARG   | 0015825C    | LIB\$MSGDEF   |                   |
| LIB\$-STRIS_INT   | 001582F4    | LIB\$MSGDEF   |                   |
| LIB\$-STRLVC      | 0015C088    | LIB\$MSGDEF   |                   |
| LIB\$-STRTRU      | 00158011    | LIB\$MSGDEF   |                   |
| LIB\$-SYNTAXERR   | 00158284    | LIB\$MSGDEF   |                   |
| LIB\$-UNECLIERR   | 00158384    | LIB\$MSGDEF   |                   |
| LIB\$-UNRKEY      | 00158244    | LIB\$MSGDEF   |                   |
| LIB\$-USEFLORES   | 00158254    | LIB\$MSGDEF   |                   |
| LIB\$-WRONUMARG   | 0015835C    | LIB\$MSGDEF   |                   |
| MTH\$\$JACKET_HND | 0000459C-R  | MTH\$\$SIGNAL |                   |
| MTH\$\$JACKET_TST | 00004605-R  | MTH\$\$SIGNAL |                   |
| MTH\$\$SIGNAL     | 000045A4-R  | MTH\$\$SIGNAL |                   |
| MTH\$\$SIGNAL_CON | 00004617-R  | MTH\$\$SIGNAL | MTHSCVTDG         |
| MTHSCVT_DA_GA     | 0000440C-R  | MTHSCVTDG     |                   |
| MTHSCVT_D_G       | 00004423-R  | MTHSCVTDG     |                   |
| MTHSCVT_GA_DA     | 00004415-R  | MTHSCVTDG     | L!BSCVTDXDX       |
| MTHSCVT_G_D       | 0000442C-R  | MTHSCVTDG     |                   |
| MTHSK_FAC_NO      | 00000016    | MTHSERRDEF    |                   |
| MTHSK_FLOOVEMAT   | 00000058    | MTHSERRDEF    | MTHSCVTDG         |
| MTHSK_FLOUNDMAT   | 00000059    | MTHSERRDEF    | MTHSCVTDG         |
| MTHSK_INVARGMAT   | 00000051    | MTHSERRDEF    |                   |
| MTHSK_LOGZERNEG   | 00000053    | MTHSERRDEF    |                   |
| MTHSK_SIGLOSMAT   | 00000057    | MTHSERRDEF    |                   |
| MTHSK_SQUROONEG   | 00000054    | MTHSERRDEF    |                   |
| MTHSK_UNDEXP      | 00000052    | MTHSERRDEF    |                   |
| MTHSK_WRONUMARG   | 00000050    | MTHSERRDEF    |                   |
| MTHS_FACILITY     | 00000016    | MTH\$MSGDEF   |                   |
| MTHS_FLOOVEMAT    | 001682C4    | MTH\$MSGDEF   |                   |
| MTHS_FLOUNDMAT    | 001682CC    | MTH\$MSGDEF   |                   |
| MTHS_INVARGMAT    | 0016828C    | MTH\$MSGDEF   |                   |
| MTHS_LOGZERNEG    | 0016829C    | MTH\$MSGDEF   |                   |
| MTHS_SIGLOSMAT    | 001682BC    | MTH\$MSGDEF   |                   |
| MTHS_SINCOSSIG    | 001682BC    | MTH\$MSGDEF   |                   |
| MTHS_SQUROONEG    | 001682A4    | MTH\$MSGDEF   |                   |
| MTHS_UNDEXP       | 00168294    | MTH\$MSGDEF   |                   |
| MTHS_WRONUMARG    | 00168284    | MTH\$MSGDEF   |                   |
| OTSS\$CVT_D-T-R8  | 0000484C-RX | LIBRTL        | FORSCVTRT         |
| OTSS\$CVT_F-T-R8  | 00004848-RX | LIBRTL        | FORSCVTRT         |
| OTSS\$CVT_G-T-R8  | 00004854-RX | LIBRTL        | FORSCVTRT         |
| OTSS\$CVT_H-T-R8  | 00004850-RX | LIBRTL        | FORSCVTRT         |
| OTSS\$CVT_[TI]    | 00004858-RX | LIBRTL        | L!BSCVTDXDX       |
| OTSS\$CVT_T-D     | 00004864-RX | LIBRTL        | L!BSCVTDXDX       |
| OTSS\$CVT_T-G     | 00004860-RX | LIBRTL        | L!BSCVTDXDX       |
| OTSS\$CVT_T-H     | 0000485C-RX | LIBRTL        | L!BSCVTDXDX       |
| OTSS_FACILITY     | 00000017    | OTSS\$MSGDEF  |                   |
| OTSS_FATINTERR    | 00178014    | OTSS\$MSGDEF  |                   |
| OTSS_INPCONERR    | 0017802C    | OTSS\$MSGDEF  |                   |
| OTSS_INSVIRMEM    | 00178044    | OTSS\$MSGDEF  |                   |
| OTSS_INTDATCOR    | 0017801C    | OTSS\$MSGDEF  |                   |

| Symbol         | Value    | Defined By    | Referenced By ... |
|----------------|----------|---------------|-------------------|
| OTSS_INVSTRDES | 0017800C | OTSSMSGDEF    |                   |
| OTSS_IO_CONCLO | 00178024 | OTSSMSGDEF    |                   |
| OTSS_OUTCONERR | 00178034 | OTSSMSGDEF    |                   |
| OTSS_STRIS_INT | 0017803C | OTSSMSGDEF    |                   |
| OTSS_USEFLORES | 00178400 | OTSSMSGDEF    |                   |
| OTSS_WRONUMARG | 0017804C | OTSSMSGDEF    |                   |
| SYSCALL_HANDL  | 80000010 | SYSSP1_VECTOR | LIB\$DECODE_FAULT |
| SYSSRCHandler  | 7FFEE118 | SYSSP1_VECTOR | LIB\$DECODE_FAULT |
| SYSSUNWIND     | 7FFEE070 | SYSSP1_VECTOR | LIB\$DECODE_FAULT |
|                |          |               | LIB\$SIM_TRAP     |
|                |          |               | LIB\$SIM_TRAP     |
|                |          |               | LIB\$SIM_TRAP     |

+-----+  
| Symbols By Value |  
+-----+

| Value    | Symbols...                           |
|----------|--------------------------------------|
| -----    | -----                                |
| 00000015 | LIB\$ FACILITY                       |
| 00000016 | MTHSR FAC NO                         |
| 00000017 | OTSS FACILITY                        |
| 00000018 | R-FOR\$CVT_F_TE                      |
| 00000020 | R-FOR\$CNV_OUT_E                     |
| 00000041 | R-FOR\$CVT_G_TE                      |
| 00000050 | MTHSK_WRONUMARG                      |
| 00000051 | MTHSK_INVARGMAT                      |
| 00000052 | MTHSK_UNDEXP                         |
| 00000053 | MTHSK_LOGZERNEG                      |
| 00000054 | MTHSK_SQROONEG                       |
| 00000055 | R-FOR\$CVT_H_TE                      |
| 00000057 | MTHSK_SIGCOSMAT                      |
| 00000058 | MTHSK_FLOOVEMAT                      |
| 00000059 | MTHSK_FLOUNDMAT                      |
| 00000069 | R-FOR\$CVT_F_TD                      |
| 00000070 | R-FOR\$CNV_OUT_D                     |
| 00000091 | R-FOR\$CVT_G_TB                      |
| 000000A5 | R-FOR\$CVT_H_TD                      |
| 00000166 | R-FOR\$CVT_F_TF                      |
| 00000175 | R-FOR\$CNV_OUT_F                     |
| 00000184 | R-FOR\$CVT_G_TF                      |
| 00000193 | R-FOR\$CVT_H_TF                      |
| 0000021E | R-FOR\$CVT_F_TG                      |
| 00000232 | R-FOR\$CNV_OUT_G                     |
| 00000246 | R-FOR\$CVT_G_TG                      |
| 0000025A | R-FOR\$CVT_H_TG                      |
| 000005E0 | R-LIB\$CVT_DX_RX                     |
| 0000178C | R-LIB\$DECODE_FAULT                  |
| 00002870 | R-LIB\$SIM_TRAP                      |
| 00003038 | R-LIB\$\$CVT_CVTLB_R1                |
| 0000303C | R-LIB\$\$CVT_CVTLW_R1                |
| 00003040 | R-LIB\$\$CVT_CVTLH_R1                |
| 00003059 | R-LIB\$\$CVT_CVTROUF_R1              |
| 000030AA | R-LIB\$\$CVT_CVTROUD_R1              |
| 000030FB | R-LIB\$\$CVT_CVTROUG_R1              |
| 00003128 | R-LIB\$\$CVT_CVTROUH_R1              |
| 000031E0 | R-LIB\$\$CVT_CVTRDQ_R1               |
| 00003210 | R-LIB\$\$CVT_CVTDH_R1                |
| 00003215 | R-LIB\$\$CVT_CVTRHE_R1               |
| 0000321A | R-LIB\$\$CVT_CVTRHQ_R1               |
| 00003287 | R-LIB\$\$CVT_CVTRHO_R1               |
| 0000330D | R-LIB\$\$CVT_CVTMF_R1                |
| 00003312 | R-LIB\$\$CVT_CVTHD_R1                |
| 00003317 | R-LIB\$\$CVT_CVTHG_R1                |
| 0000331C | R-LIB\$\$CVT_CVTGH_R1                |
| 00003321 | R-LIB\$\$CVT_SCALE_OUT_UP_BY_10_R1   |
| 00003350 | R-LIB\$\$CVT_SCALE_OUT_DOWN_BY_TO_R1 |
| 00003379 | R-LIB\$\$CVT_MULD2_R1                |

| Value    | Symbols...             |
|----------|------------------------|
| -----    | -----                  |
| 0000337D | R-LIB\$\$CVT_DIVD2_R1  |
| 00003381 | R-LIB\$\$CVT_MULH2_R1  |
| 00003386 | R-LIB\$\$CVT_DIVH2_R1  |
| 00003388 | R-LIB\$\$CVT_ASHP_R1   |
| 00003397 | R-LIB\$\$CVT_CMPPH_R1  |
| 000034A3 | R-LIB\$\$FIND_CVT_PATH |
| 00003CF8 | R-LIB\$AB_CVTPT_0      |
| 00003DF8 | R-LIB\$AB_CVTPT_U      |
| 00003EF8 | R-LIB\$AB_CVTPT_Z      |
| 00003FF8 | R-LIB\$AB_CVTTP_0      |
| 000040F8 | R-LIB\$AB_CVTTP_U      |
| 000041F8 | R-LIB\$AB_CVTTP_Z      |
| 000042F8 | R-LIB\$AB_CVT_O_U      |
| 000043F8 | R-LIB\$AB_CVT_U_O      |
| 0000440C | R-MTH\$CVT_DA_GA       |
| 00004415 | R-MTH\$CVT_GA_DA       |
| 00004423 | R-MTH\$CVT_D_G         |
| 0000442C | R-MTH\$CVT_G_D         |
| 0000459C | R-MTH\$\$JACKET_HND    |
| 000045A4 | R-MTH\$\$SIGNAL        |
| 00004605 | R-MTH\$\$JACKET_TST    |
| 00004617 | R-MTH\$\$SIGNAL_CON    |
| 00004848 | RX-OTSS\$CVT_F_T_R8    |
| 0000484C | RX-OTSS\$CVT_D_T_R8    |
| 00004850 | RX-OTSS\$CVT_H_T_R8    |
| 00004854 | RX-OTSS\$CVT_G_T_R8    |
| 00004858 | RX-OTSS\$CVT_L_TI      |
| 0000485C | RX-OTSS\$CVT_T_H       |
| 00004860 | RX-OTSS\$CVT_T_G       |
| 00004864 | RX-OTSS\$CVT_T_D       |
| 00004868 | RX-LIB\$GET_OPCODE     |
| 0000486C | RX-LIB\$MATCH_COND     |
| 00004870 | RX-LIB\$COPY_R_DX6     |
| 00004874 | RX-LIB\$COPY_DDX6      |
| 00004878 | RX-LIB\$STOP           |
| 0000487C | RX-LIB\$SIGNAL         |
| 00004880 | RX-LIB\$SIG_TO_RET     |
| 00158001 | LIB\$_NORMAL           |
| 00158011 | LIB\$_STRTRU           |
| 00158019 | LIB\$_ONEENTQUE        |
| 00158021 | LIB\$_KEYALRINS        |
| 00158029 | LIB\$_ERRROUCAL        |
| 00158031 | LIB\$_RESTART          |
| 00158204 | LIB\$_BADSTA           |
| 0015820C | LIB\$_FATERRLIB        |
| 00158214 | LIB\$_INSVIRMEM        |
| 0015821C | LIB\$_INPSTRTRU        |
| 00158224 | LIB\$_INVSTRDES        |
| 0015822C | LIB\$_INTLOGERR        |
| 00158234 | LIB\$_INVARG           |
| 0015823C | LIB\$_AMBKEY           |
| 00158244 | LIB\$_UNRKEY           |

| Value    | Symbols...       |
|----------|------------------|
| 0015824C | LIB\$_PUSSTAOVE  |
| 00158254 | LIB\$_USEFLORES  |
| 0015825C | LIB\$_SIGNO ARG  |
| 00158264 | LIB\$_BADBLOADR  |
| 0015826C | LIB\$_BADBLOSIZ  |
| 00158274 | LIB\$_NOTFOU     |
| 0015827C | LIB\$_ATTCONSTO  |
| 00158284 | LIB\$_SYNTAXERR  |
| 0015828C | LIB\$_INVTYPE    |
| 00158294 | LIB\$_INSEF      |
| 0015829C | LIB\$_EF_ALRFRE  |
| 001582A4 | LIB\$_EF_ALRRES  |
| 001582AC | LIB\$_RESSYS     |
| 001582B4 | LIB\$_INSLUN     |
| 001582BC | LIB\$_LUNALRFRE  |
| 001582C4 | LIB\$_LUNRESSYS  |
| 001582CC | LIB\$_SCRBUFOVF  |
| 001582D4 | LIB\$_INVSCRPOS  |
| 001582DC | LIB\$_SECINTFAI  |
| 001582E4 | LIB\$_INVCHA     |
| 001582EC | LIB\$_QUEWASEMP  |
| 001582F4 | LIB\$_STRIS INT  |
| 001582FC | LIB\$_KEYNOTFOU  |
| 00158304 | LIB\$_INVCVT     |
| 0015830C | LIB\$_INVDTYDSC  |
| 00158314 | LIB\$_INVCLADSC  |
| 0015831C | LIB\$_INVCLADTY  |
| 00158324 | LIB\$_INVNBDS    |
| 0015832C | LIB\$_DESSTRQVF  |
| 00158334 | LIB\$_INTOVF     |
| 0015833C | LIB\$_DEC0VF     |
| 00158344 | LIB\$_FLTOVF     |
| 0015834C | LIB\$_FLTUND     |
| 00158354 | LIB\$_ROPRAND    |
| 0015835C | LIB\$_WRONUMARG  |
| 00158364 | LIB\$_NOSUCHSYM  |
| 0015836C | LIB\$_INSCLIMEM  |
| 00158374 | LIB\$_AMBSYMDEF  |
| 0015837C | LIB\$_NOCLI      |
| 00158384 | LIB\$_UNECLIERR  |
| 0015838C | LIB\$_INVSYMNAME |
| 00158394 | LIB\$_ATTRREQREF |
| 0015839C | LIB\$_INVFILESP  |
| 001583A4 | LIB\$_INVXAB     |
| 001583AC | LIB\$_NO_STRACT  |
| 001583B4 | LIB\$_BADTAGVAL  |
| 001583BC | LIB\$_INVOPEZON  |
| 001583C4 | LIB\$_PAGLIMEXC  |
| 00159000 | LIB\$_OUTSTRTRU  |
| 00159008 | LIB\$_FILFAIMAT  |
| 00159010 | LIB\$_NEGANS     |
| 00159018 | LIB\$_QUIPRO     |

| Value    | Symbols...       |
|----------|------------------|
| 00159020 | LIB\$_QUICONACT  |
| 0015C000 | LIB\$_BADCCC     |
| 0015C008 | LIB\$_EOMERROR   |
| 0015C010 | LIB\$_EOMFATAL   |
| 0015C018 | LIB\$_EOMWARN    |
| 0015C020 | LIB\$_GSDTYP     |
| 0015C028 | LIB\$_ILLFMLCNT  |
| 0015C030 | LIB\$_ILLMODNAM  |
| 0015C038 | LIB\$_ILLPSCLEN  |
| 0015C040 | LIB\$_ILLRECLEN  |
| 0015C048 | LIB\$_ILLRECLN2  |
| 0015C050 | LIB\$_ILLRECTYP  |
| 0015C058 | LIB\$_ILLRECTY2  |
| 0015C060 | LIB\$_ILLSYMLEN  |
| 0015C068 | LIB\$_NOEOM      |
| 0015C070 | LIB\$_RECTOOSML  |
| 0015C078 | LIB\$_SEQUENCE   |
| 0015C080 | LIB\$_SEQUENCE2  |
| 0015C088 | LIB\$_STRlvl     |
| 00168284 | MTH\$_WRONUMARG  |
| 0016828C | MTH\$_INVARGMAT  |
| 00168294 | MTH\$_UNDEXP     |
| 0016829C | MTH\$_LOGZERNEG  |
| 001682A4 | MTH\$_SQUROONEG  |
| 001682BC | MTH\$_SIGLOSMAT  |
| 001682C4 | MTH\$_FLOORVEMAT |
| 001682CC | MTH\$_FLOUNDMAT  |
| 0017800C | OTSS_INVSTRDES   |
| 00178014 | OTSS_FATINTERR   |
| 0017801C | OTSS_INTDATCOR   |
| 00178024 | OTSS_IO_CONCLO   |
| 0017802C | OTSS_INPCONERR   |
| 00178034 | OTSS_OUTCONERR   |
| 0017803C | OTSS_STRIS_INT   |
| 00178044 | OTSS_INSVIRMEM   |
| 0017804C | OTSS_WRONUMARG   |
| 00178400 | OTSS_USEFLORES   |
| 0018800C | FORS_NOTFORSPE   |
| 0018808C | FORS_SYNERRNAM   |
| 00188094 | FORS_TOOMANVAL   |
| 0018809C | FORS_INVREFVAR   |
| 001880A4 | FORS_REWERR      |
| 001880AC | FORS_DUPFILESPE  |
| 00188084 | FORS_INPRECTOO   |
| 001880BC | FORS_BACERR      |
| 001880C4 | FORS_ENDDURREA   |
| 001880CC | FORS_RECNUMOUT   |
| 001880D4 | FORS_OPEDEFREQ   |
| 001880DC | FORS_MORONEREc   |
| 001880E4 | FORS_CLOERR      |
| 001880EC | FORS_FILNOTFOU   |
| 001880F4 | FORS_OPEFAI      |

## Value

-----  
 001880FC FOR\$\_MIXFILACC  
 00188104 FOR\$\_INVLOGUNI  
 0018810C FOR\$\_ENDFILER  
 00188114 FOR\$\_UNIALROPE  
 0018811C FOR\$\_SEGRECFOR  
 00188124 FOR\$\_ATTACCNON  
 0018812C FOR\$\_INCRECLEN  
 00188134 FOR\$\_ERRDURWRI  
 0018813C FOR\$\_ERRDURREA  
 00188144 FOR\$\_RECIO\_OPE  
 0018814C FOR\$\_INSVIRMEM  
 00188154 FOR\$\_NO\_SUCDEV  
 0018815C FOR\$\_FI[NAMSPE  
 00188164 FOR\$\_INCRECTYP  
 0018816C FOR\$\_KEYVALERR  
 00188174 FOR\$\_INCOPECLO  
 0018817C FOR\$\_WRIREAFIL  
 00188184 FOR\$\_INVARGFOR  
 0018818C FOR\$\_INVKEYSPE  
 00188194 FOR\$\_INCKEYCHG  
 0018819C FOR\$\_INCFILEORG  
 001881A4 FOR\$\_SPERECLOC  
 001881AC FOR\$\_NO\_CURREC  
 001881B4 FOR\$\_REWRITER  
 001881BC FOR\$\_DELEERR  
 001881C4 FOR\$\_UNLERR  
 001881CC FOR\$\_FINERR  
 001881DC FOR\$\_LISIO\_SYN  
 001881E4 FOR\$\_INFFORLOO  
 001881EC FOR\$\_FORVARMIS  
 001881F4 FOR\$\_SYNERRFOR  
 001881FA FOR\$\_OUTCONERR  
 00188204 FOR\$\_INPCONERR  
 00188214 FOR\$\_OUTSTAOVE  
 0018821C FOR\$\_INPSTARREQ  
 00188224 FOR\$\_VFEVALERR  
 001882EC FOR\$\_ADJARRDIM  
 00188804 FOR\$\_UNFI0\_FMT  
 0018880C FOR\$\_FMTI0\_UNF  
 00188814 FOR\$\_DIRIO\_KEY  
 0018881C FOR\$\_SEQIO\_DIR  
 00188824 FOR\$\_KEYIO\_DIR  
 0018882C FOR\$\_IO\_NONFOR  
 00188834 FOR\$\_INVTEXREC  
 0018883C FOR\$\_INVTEX  
 00188844 FOR\$\_OPEREQDIS  
 0018884C FOR\$\_OPEREQSEQ  
 00188963 FOR\$\_FLOUNDEXC  
 7FFEE070 SYSSUNWIND  
 7FFEE118 SYSSSRCHANDLER  
 80000010 SYSCALL\_HANDL

## Symbols...

-----  
 FOR\$\_ATTRANON

ENI

Value  
-----

Symbols...  
-----

Key for special characters above:

|   |   |               |
|---|---|---------------|
| ! | * | - Undefined   |
| U |   | - Universal   |
| R |   | - Relocatable |
| X |   | - External    |

Virtual memory allocated:

Stack size:

Image header virtual block limits:

Image binary virtual block limits:

Image name and identification:

Number of files:

Number of modules:

Number of program sections:

Number of global symbols:

Number of cross references:

Number of image sections:

Number of code references to shareable images:

Image type:

Map format:

Estimated map length:

00000000 000049FF 00004A00 (18944. bytes, 37. pages)

0. pages

1. ( 1. block)

2. 38. ( 37. blocks)

LIBRTL2 V04-000

7.

25.

8.

495.

358.

4.

15.

PIC, SHAREABLE. Global Section Match=LESS/EQUAL, Ident, Major=1, Minor=10  
FULL WITH CROSS REFERENCE in file \_S255\$DUA28:[LIBRTL.LIS]LIBRTL2.MAP;1  
106. blocks

! Link Run Statistics !

**Performance Indicators**

|  | Page Faults | CPU Time    | Elapsed Time |
|--|-------------|-------------|--------------|
| Command processing:                    | 180         | 00:00:01.34 | 00:00:02.55  |
| Pass 1:                                | 224         | 00:00:02.19 | 00:00:07.46  |
| Allocation/Relocation:                 | 38          | 00:00:00.22 | 00:00:00.38  |
| Pass 2:                                | 109         | 00:00:01.95 | 00:00:06.95  |
| Map data after object module synopsis: | 21          | 00:00:01.80 | 00:00:01.75  |
| Symbol table output:                   | 4           | 00:00:00.07 | 00:00:00.21  |
| Total run values:                      | 576         | 00:00:07.57 | 00:00:19.30  |

Using a working set limited to 1500 pages and 102 pages of data storage (excluding image)

Total number object records read (both passes): 818  
of which 394 were in libraries and 2 were DEBUG data records containing 48 bytesNumber of modules extracted explicitly = 23  
with 0 extracted to resolve undefined symbols

0 library searches were for symbols not in the library searched

A total of 5 global symbol table records was written

LINK/USERLIB=PROC/NOSYSLIB/SHARE=EXES:LIBRTL2/MAP=MAPS:LIBRTL2/FULL/CROSS COMS:LIBRTLNK2/OPTIONS  
! LIBRTLNK2.OPT - Linker options file for building LIBRTL2.EXE

- 1-001 - Original. LEB 2-Jun-1983
- 1-002 - Add in reference to FOR\$CVTRT, MTH\$CVTDG, MTH\$\$SIGNAL,  
FOR\$MSGDEF, MTH\$ERRDEF and MTH\$MSGDEF. LEB 27-Jun-1983
- 1-003 - change ref to RTL.OLB to be LIBRTL.OLB. MDL 26-Jul-1983
- 1-004 - refer to other facilities' OLB's as appropriate. MDL 1-Aug-1983
- 1-005 - link against IMAGELIB in SYSSLIBRARY. DL 4-Aug-1983
- 1-006 - other facilities' OLB's are in RESOBJ\$ now. MDL 11-Aug-1983

+ Specify image name and ident. Note that this is not the same as  
the global section ident given with GSMATCH. IDENT should change  
each time LIBRTL changes in a released version, such as a maintenance  
update. GSMATCH should change only when the vector is modified in an  
incompatible (backwards) fashion.

NAME=LIBRTL2  
IDENT='V04-000'

!+  
+ Specify the order of the PSECTs. The vector comes first.

COLLECT=CLUSTER1,\_LIB\$VECTOR,\_LIB\$CODE,\_OT\$CODE,\_MTH\$CODE,\_FOR\$CODE  
COLLECT=CLUSTER2,\_LIB\$DATA,\_OT\$DATA,\_MTH\$DATA,\_FOR\$DATA

+ Specify modules to be included. The first must be LIBVECTOR.

OBJ\$:\_LIB\$VECTOR,-

!+  
+ modules from LIBRTL.OLB

LIB\$:\_LIBRTL/INCLUDE=(-

LIB\$CVTDXDX,-  
LIB\$DECODE FAULT,-  
LIB\$SIM TRAP,-  
LIB\$CVTRAC,-  
LIB\$SFIND CVT PATH,-  
LIB\$AB\_CVTPT\_O,-  
LIB\$AB\_CVTPT\_U,-  
LIB\$AB\_CVTPT\_Z,-  
LIB\$AB\_CVTTP\_O,-  
LIB\$AB\_CVTTP\_U,-  
LIB\$AB\_CVTTP\_Z,-  
LIB\$AB\_CVT\_O\_U,-  
LIB\$AB\_CVT\_U\_O,-  
LIB\$MSGDEF,-  
OT\$MSGDEF),-

+ modules from MTHRTL.OLB

RESOBJ\$:\_MTHRTL/INCLUDE=(-

MTH\$CVTDG,-  
MTH\$SIGNAL,-  
MTH\$MSGDEF,-  
MTH\$ERRDEF),-

!+

\_\\$255\$DUA28:[LIBRTL.OBJ]LIBRTL2.EXE:1

: modules from FORRTL.OLB

!\_RESOBJ\$:FORRTL/INCLUDE=(-

FOR\$CVTRT,-  
FOR\$MSGDEF)

SYSS\$LIBRARY:STARLET/INCLUDE=(SYSS\$P1\_VECTOR,SYSS\$SDEF)

SYSS\$LIBRARY:IMAGELIB/LIBRARY

: Set global section match values

GSMATCH=LEQUAL,1,10

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VAX/VMS V4.0

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